



HAMBURG SÜD – PREMIUM REEFER CARRIER FOR YOUR **PHARMACEUTICAL** SHIPMENTS

The transportation of temperature-controlled pharmaceuticals requires special care. In order to ensure the quality and integrity of pharmaceuticals along the entire supply chain, Hamburg Süd offers a variety of services to its customers.



Quality Management

Hamburg Süd's integrated management system encompasses the issues of safety, environmental protection, and quality. The quality standard ISO 9001 and the ISM Code were implemented as early as 1996, with the environmental norm ISO 14001 being added in 2000. It is the overriding goal of the Hamburg Süd Group to ensure and constantly improve the quality and environmental compatibility of the services offered, and to avoid errors and risks.

Hamburg Süd has a specialized Pharma Team, with experts from Cargo Care Management, Equipment Technology, Quality Management, and Insurance. The Pharma Team analyzes the risk involved for each shipment and gives the necessary instructions to the parties involved in order to protect the cargo.



Good Distribution Practice

The transportation of pharmaceutical products in reefer equipment is subject to the particularly strict guidelines of the Good Distribution Practice (GDP) scheme, specified by the World Health Organization as well as the European Commission. With regards to calibration processes, the GDP scheme requires that the reefer equipment used for pharmaceutical shipments should be calibrated at regular intervals, at least once a year.

During production of the reefer machinery in the container factory, temperature sensors are calibrated. Thereafter, during regular pre-trip inspections (PTI) and active reefer carryings, sensors check each other automatically to ensure functionality and accurate readings. There is no other calibration procedure in place in the shipping industry. Therefore, Hamburg Süd decided to initiate the Pharma-intensive PTI in order to meet the requirements of a "GDP-conformed reefer calibration."



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GDP-conformed reefer calibration

Hamburg Süd performs ice-bath calibration of the temperature sensors as part of the Pharma-intensive PTI. When GDP-conformed reefer calibration is requested by our customers, two external (USDA) sensors are calibrated. For the calibration process, the ice bath needs to have a temperature of about 0°C. This is controlled by a calibrated reference thermometer. The USDA sensors need to be within $\pm 0.3^{\circ}\text{C}$ to successfully pass the calibration.

Once calibration is completed successfully, one sensor is placed at the supply air outlet and the other one at the return air grill in order to read supply air and return air temperatures during transportation. The calibration data are recorded as per GDP requirements.



Upon request, Hamburg Süd provides a signed document from the depot where the calibration took place. We offer this value-added service for a fee per container. In order to perform GDP-conformed reefer calibration, we ask our valued customers to place their request prior to booking.

If you would like further information on our procedures of pharmaceutical shipments, please contact your local Hamburg Süd representative.